

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032519\
 Data File : VF062132.D
 Acq On : 25 Mar 2019 15:26
 Operator : VA/AP
 Sample : K2078-04RE
 Misc : 3.86g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-BRE

Quant Time: Mar 26 04:20:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	226640	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	367732	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	282146	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	135719	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	60017	35.60	ug/l	-0.04
Spiked Amount			Recovery	=	71.20%	
35) Dibromofluoromethane	4.12	113	1651	0.66	ug/l	-0.03
Spiked Amount			Recovery	=	1.32%	
50) Toluene-d8	7.55	98	223998	30.17	ug/l	-0.04
Spiked Amount			Recovery	=	60.34%	
62) 4-Bromofluorobenzene	11.41	95	84711	29.55	ug/l	-0.03
Spiked Amount			Recovery	=	59.10%	

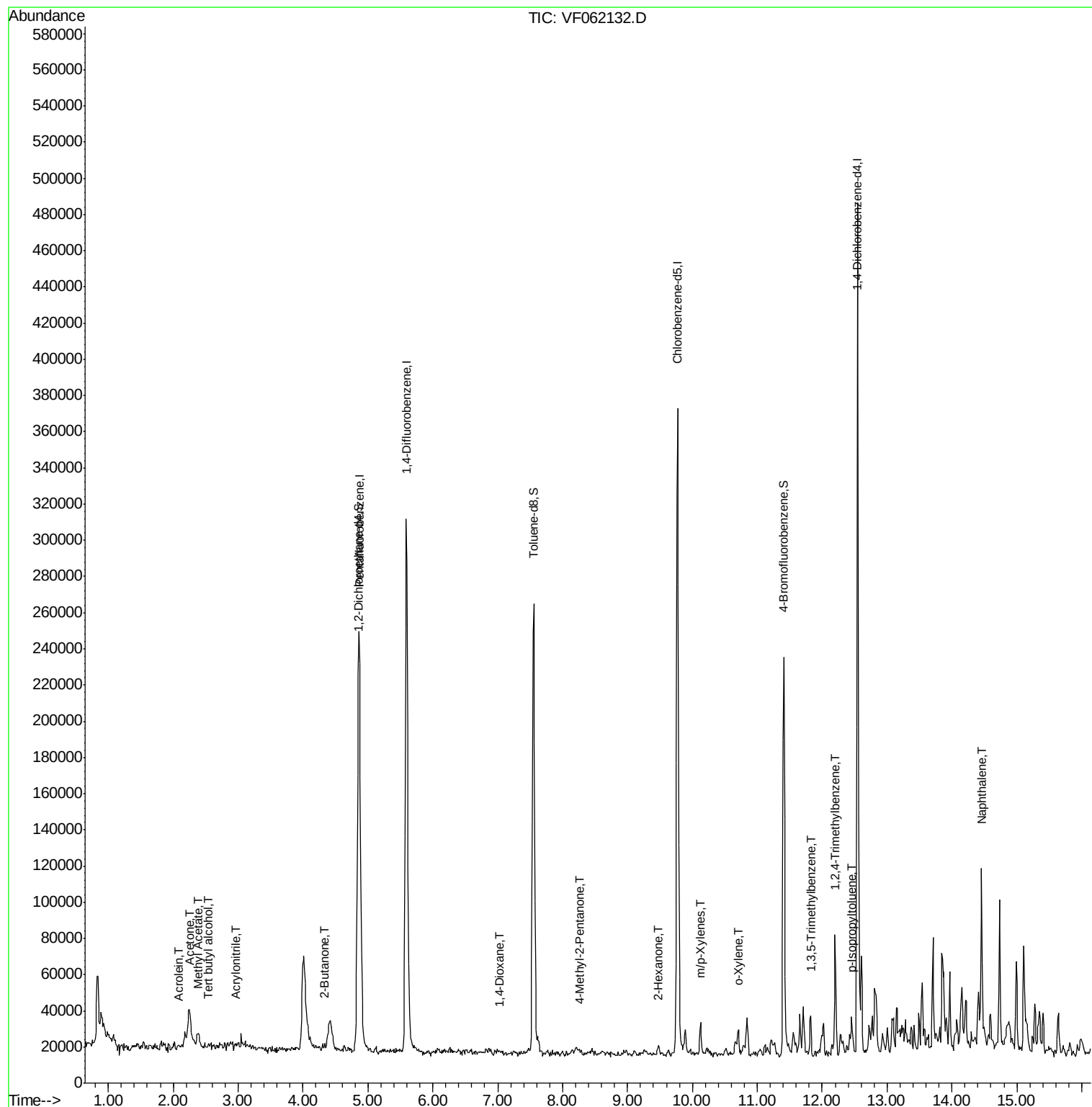
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.54	59	564	6.081	ug/l #	66
13) Acrolein	2.07	56	332	2.977	ug/l	100
15) Acrylonitrile	2.96	53	505	1.548	ug/l #	67
16) Acetone	2.24	43	29406	82.881	ug/l	97
18) Methyl Acetate	2.39	43	3455	4.082	ug/l #	56
20) Methylene Chloride	2.18	84	3585	Below Cal		91
25) 2-Butanone	4.33	43	4472	6.038	ug/l #	78
49) 1,4-Dioxane	7.01	88	62	6.694	ug/l #	25
51) 4-Methyl-2-Pentanone	8.26	43	3810	3.071	ug/l #	82
59) 2-Hexanone	9.48	43	2511	2.761	ug/l	78
68) m/p-Xylenes	10.13	106	5466	1.593	ug/l	100
69) o-Xylene	10.71	106	4196	1.168	ug/l	91
80) 1,3,5-Trimethylbenzene	11.82	105	11651	1.483	ug/l	88
84) 1,2,4-Trimethylbenzene	12.20	105	30704	3.987	ug/l	98
86) p-Isopropyltoluene	12.45	119	13149	1.427	ug/l	98
95) Naphthalene	14.46	128	50796	10.218	ug/l	96

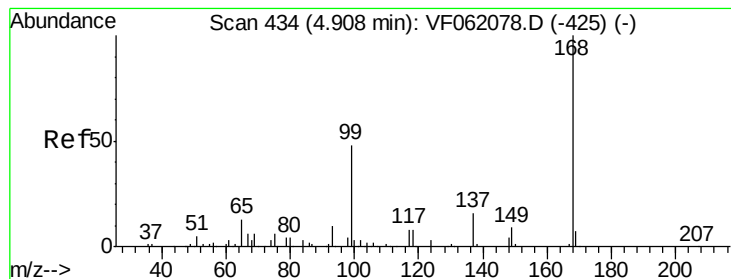
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

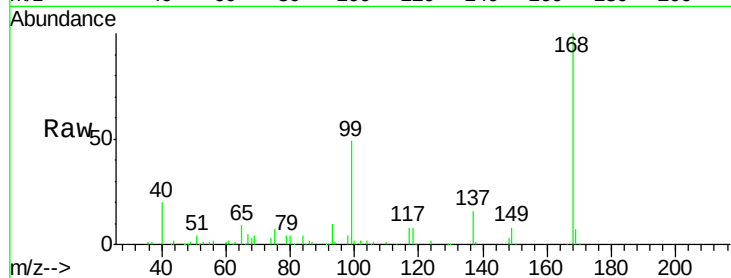
FK-SF-01-005-BRE

Tot Ion:168 Resp: 226640

Ion Ratio Lower Upper

168 100

99 49.4 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

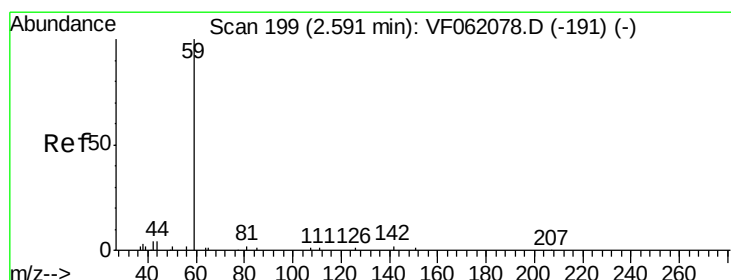
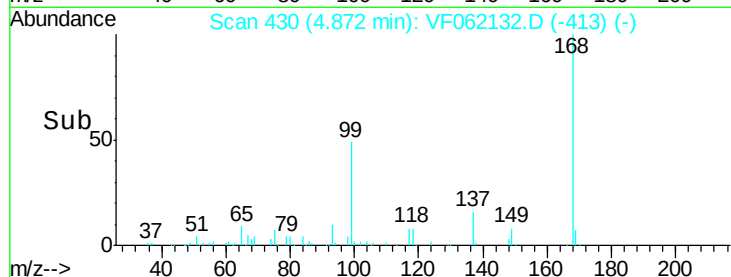
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.081 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.05 min

Lab File: VF062132.D

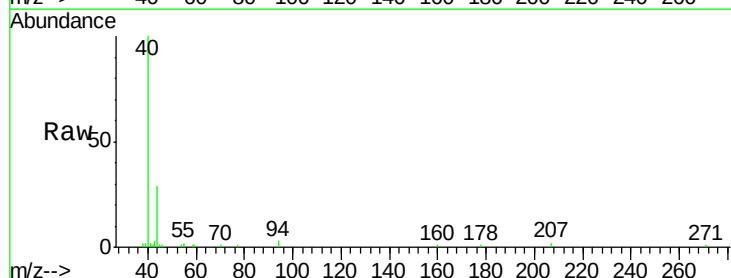
Acq: 25 Mar 2019 15:26

Tgt Ion: 59 Resp: 564

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.54

250

200

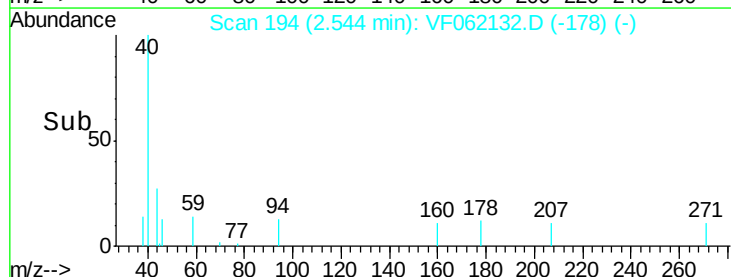
150

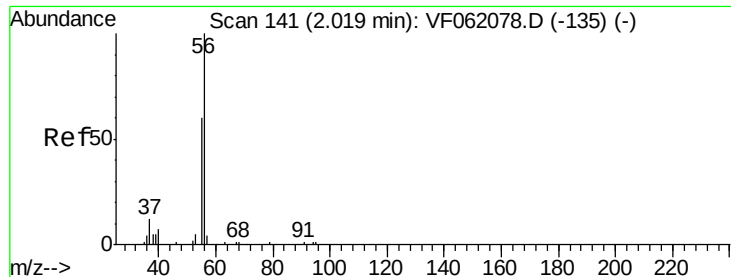
100

50

0

Time-->





#13

Acrolein

Concen: 2.977 ug/l

RT: 2.07 min Scan# 146

Delta R.T. 0.05 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

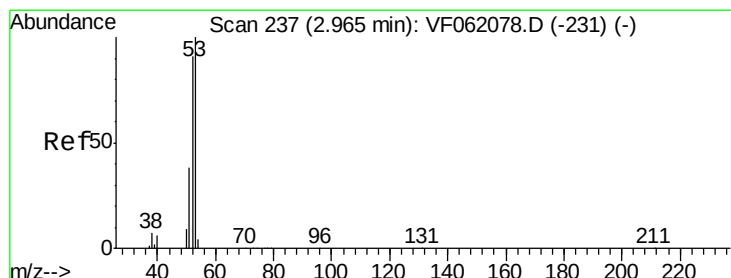
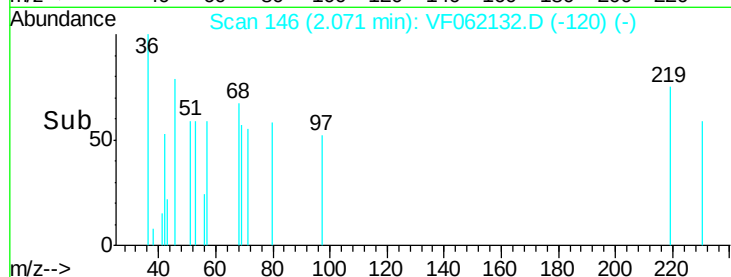
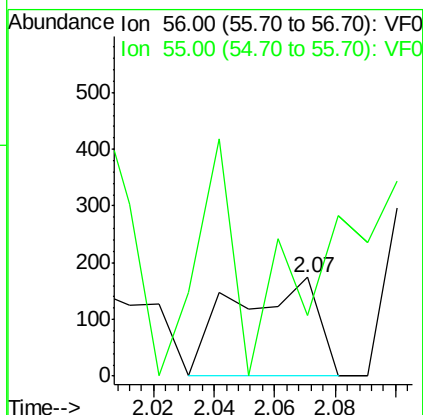
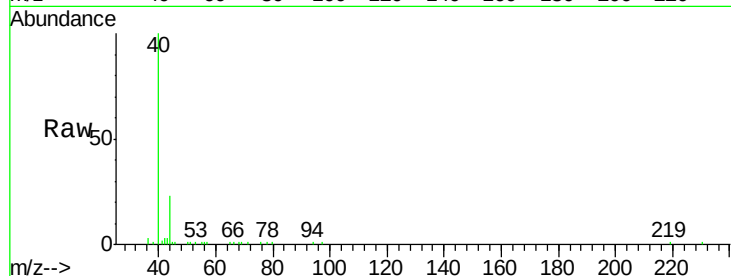
FK-SF-01-005-BRE

Tot Ion: 56 Resp: 332

Ion Ratio Lower Upper

56 100

55 60.9 49.0 73.4



#15

Acrylonitrile

Concen: 1.548 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

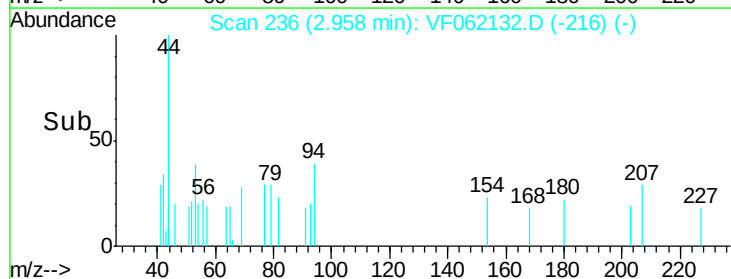
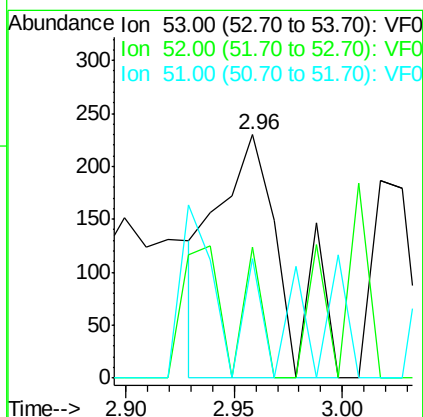
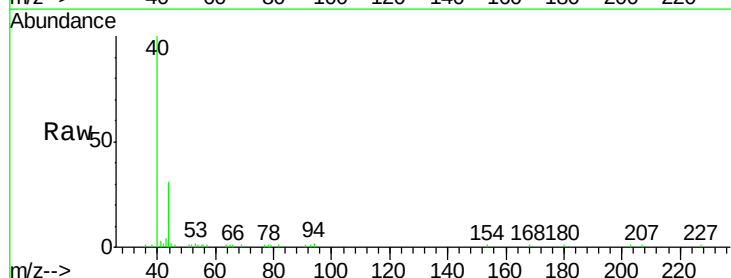
Tgt Ion: 53 Resp: 505

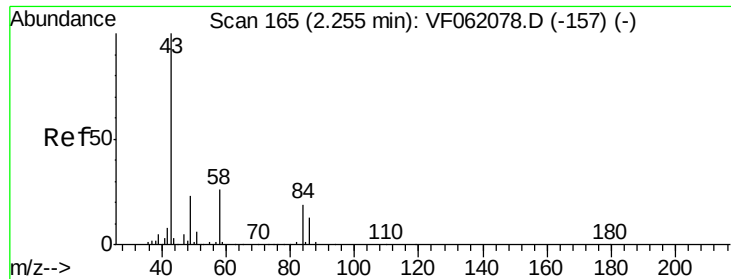
Ion Ratio Lower Upper

53 100

52 53.9 72.3 108.5#

51 49.1 30.4 45.6#





#16

Acetone

Concen: 82.881 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

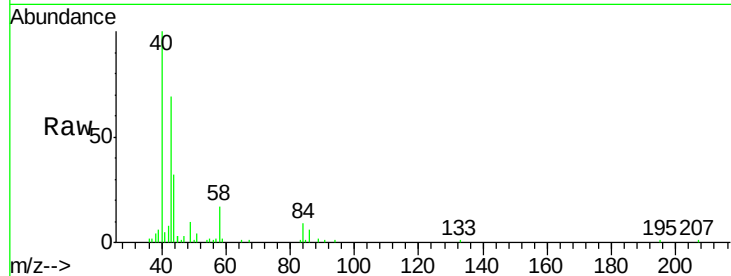
FK-SF-01-005-BRE

Tot Ion: 43 Resp: 29406

Ion Ratio Lower Upper

43 100

58 24.3 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

10000

8000

6000

4000

2000

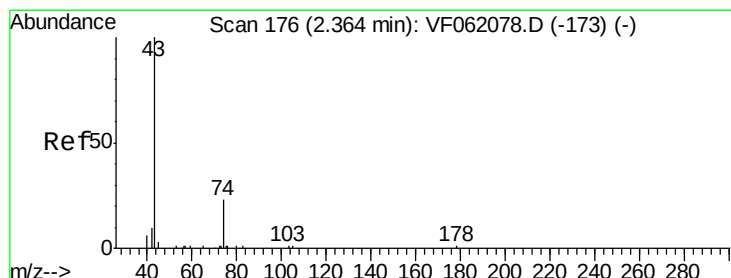
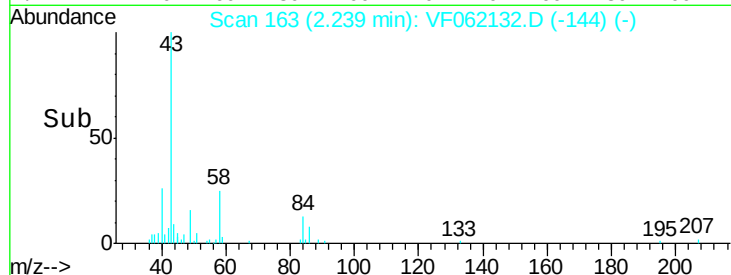
0

Time-->

2.10

2.20

2.30



#18

Methyl Acetate

Concen: 4.082 ug/l

RT: 2.39 min Scan# 178

Delta R.T. 0.02 min

Lab File: VF062132.D

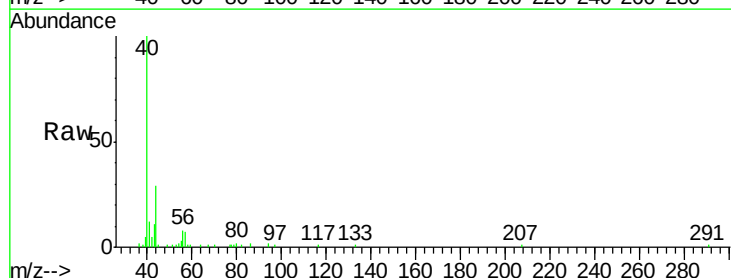
Acq: 25 Mar 2019 15:26

Tgt Ion: 43 Resp: 3455

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2500

2000

1500

1000

500

0

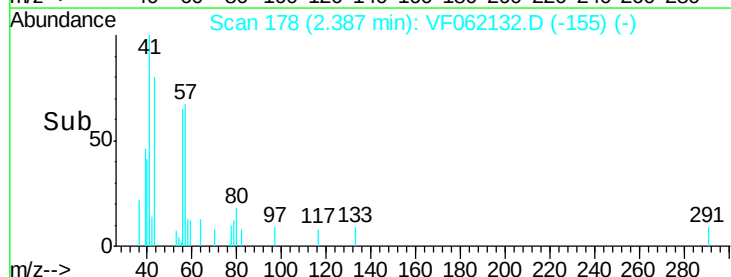
Time-->

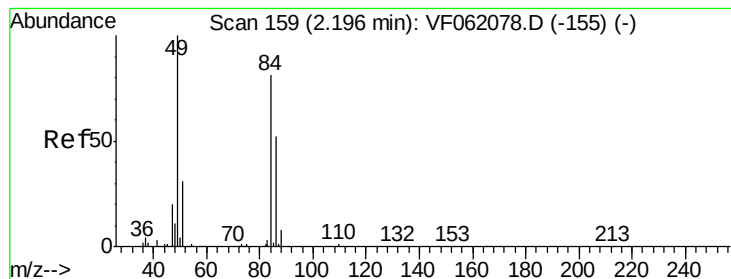
2.30

2.35

2.40

2.45



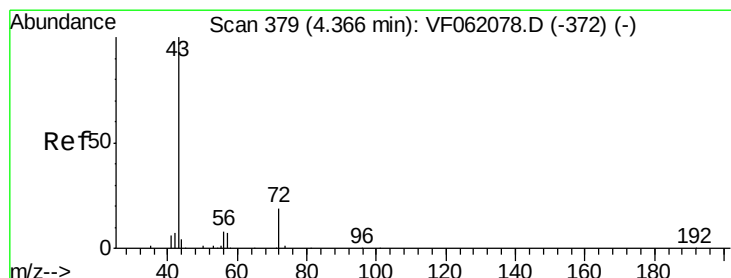
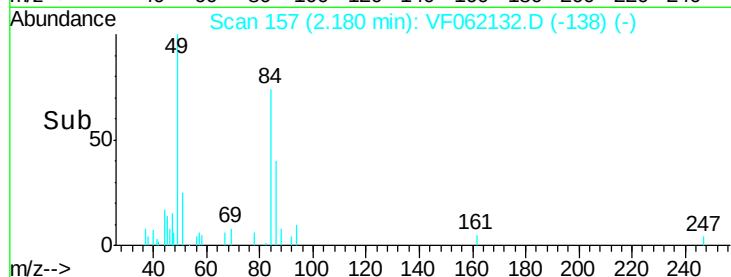
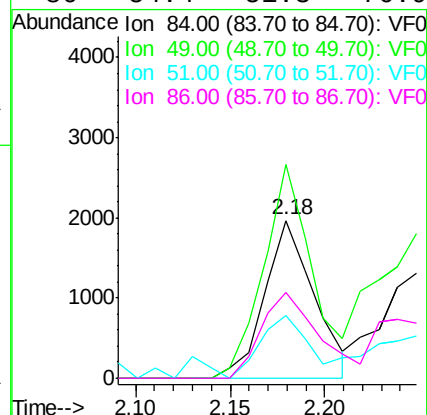
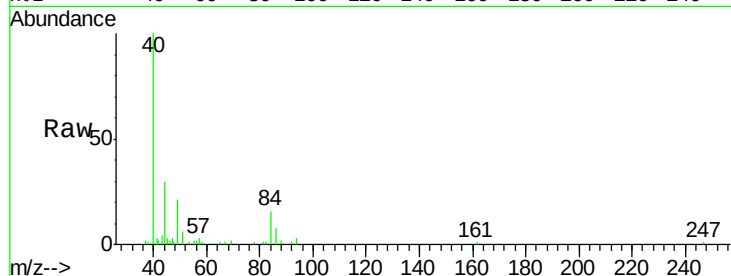


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.18 min Scan# 157
 Delta R.T. -0.02 min
 Lab File: VF062132.D
 Acq: 25 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-BRE

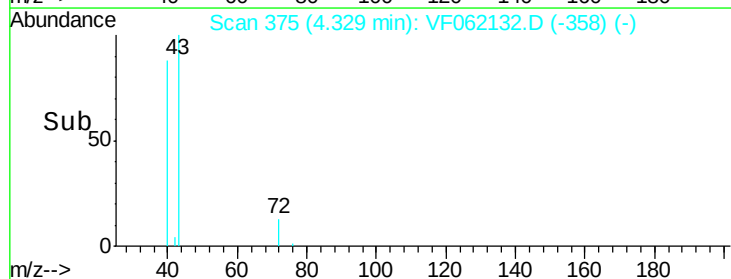
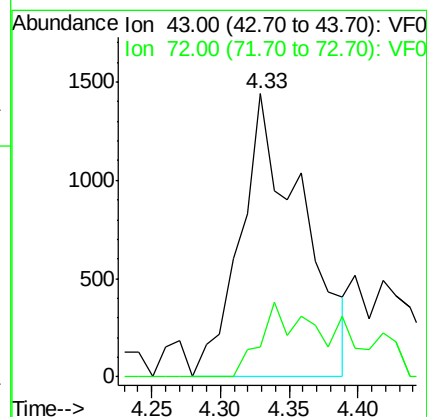
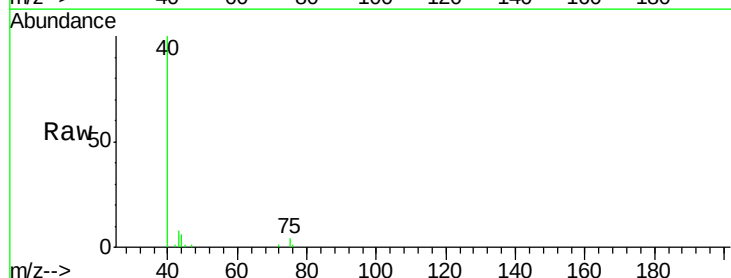
Tot Ion:	84	Resp:	3585
Ion	Ratio	Lower	Upper
84	100		
49	135.5	100.4	150.6
51	39.8	31.0	46.6
86	54.4	51.3	76.9

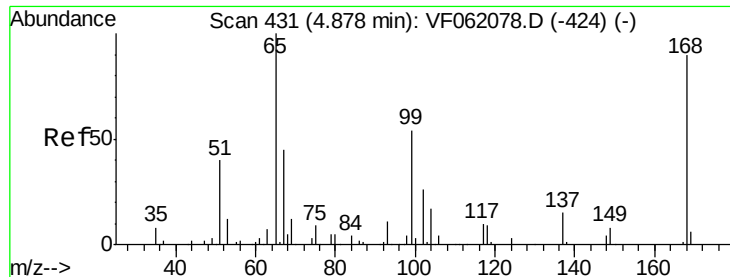


#25

2-Butanone
 Concen: 6.038 ug/l
 RT: 4.33 min Scan# 375
 Delta R.T. -0.04 min
 Lab File: VF062132.D
 Acq: 25 Mar 2019 15:26

Tgt Ion:	43	Resp:	4472
Ion	Ratio	Lower	Upper
43	100		
72	10.7	16.7	25.1#

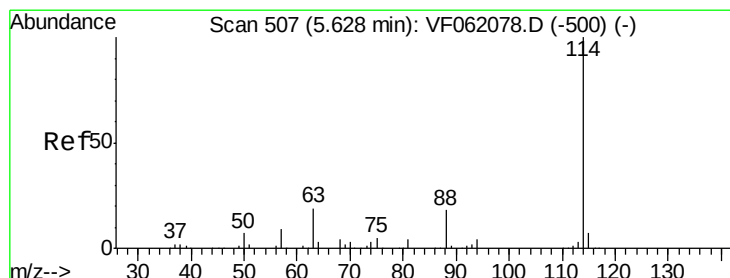
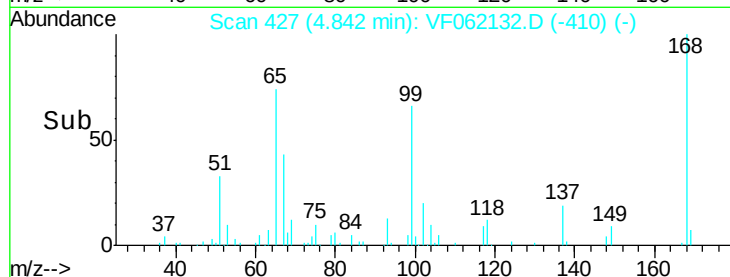
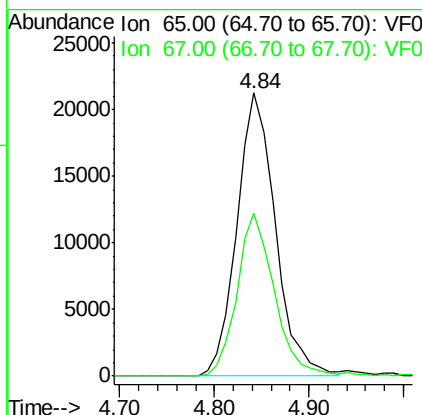
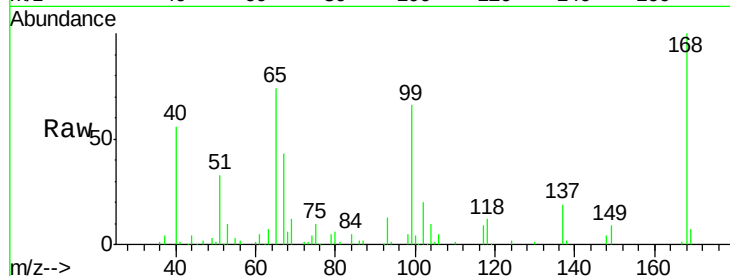




#33
 1,2-Dichloroethane-d4
 Concen: 35.602 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF062132.D
 Acq: 25 Mar 2019 15:26

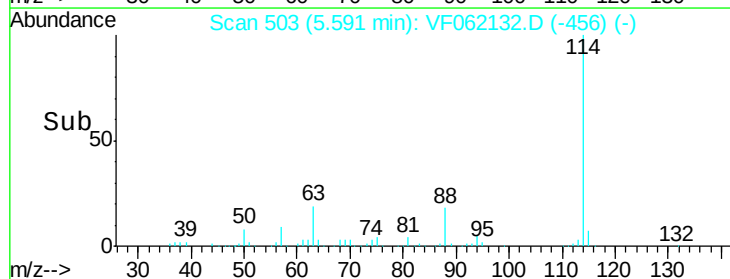
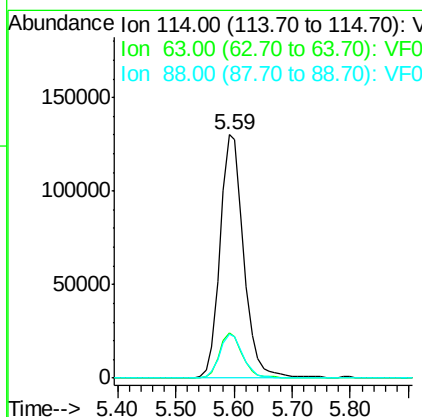
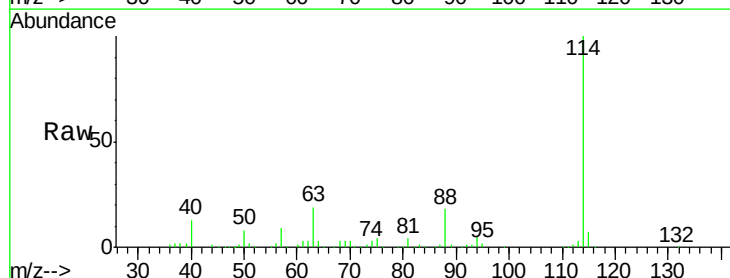
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-BRE

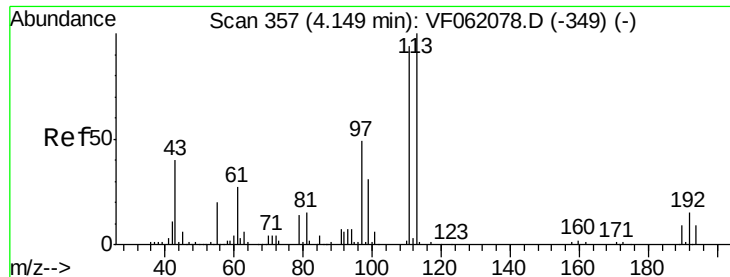
Tot Ion: 65 Resp: 60017
 Ion Ratio Lower Upper
 65 100
 67 57.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.04 min
 Lab File: VF062132.D
 Acq: 25 Mar 2019 15:26

Tgt Ion: 114 Resp: 367732
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 37.8
 88 18.3 0.0 36.4





#35

Dibromofluoromethane

Concen: 0.664 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

FK-SF-01-005-BRE

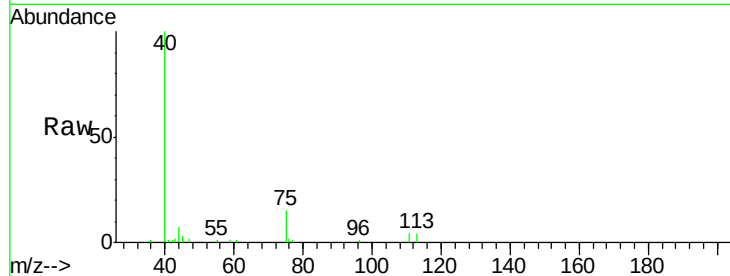
Tot Ion:113 Resp: 1651

Ion Ratio Lower Upper

113 100

111 107.6 75.4 113.0

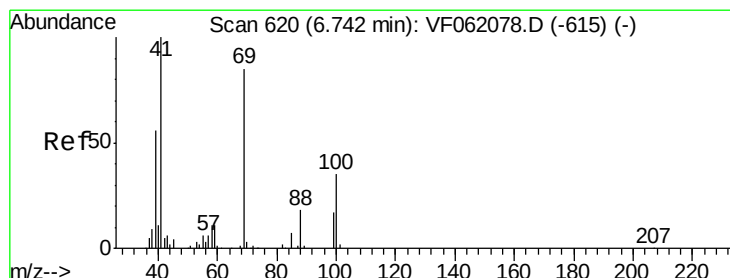
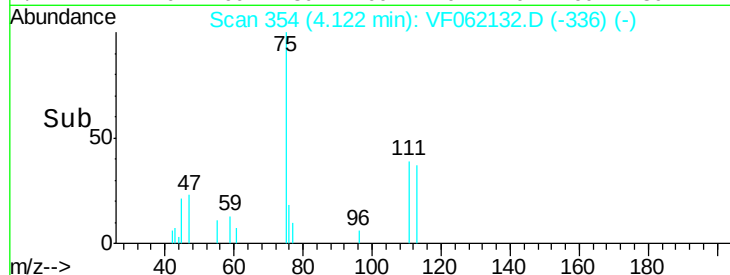
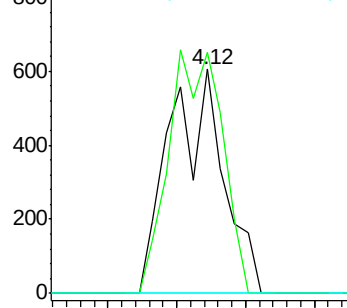
192 0.0 12.3 18.5#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 6.694 ug/l

RT: 7.01 min Scan# 647

Delta R.T. 0.27 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

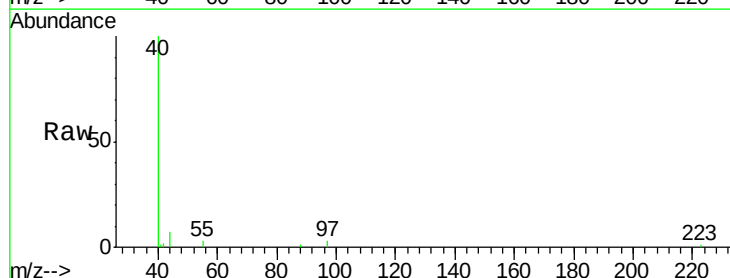
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 35.0 52.4#

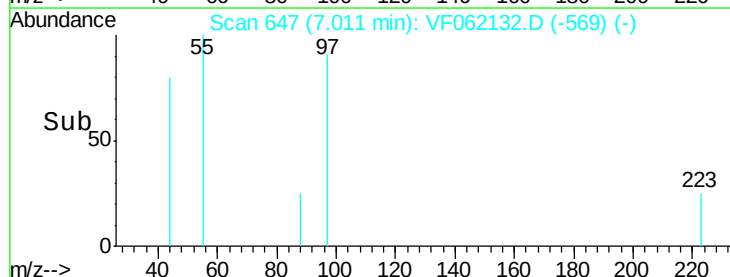
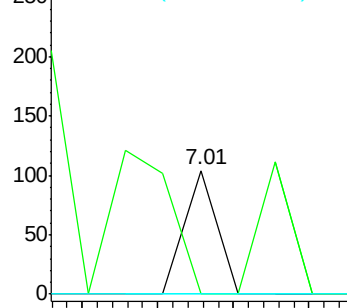
58 0.0 49.9 74.9#

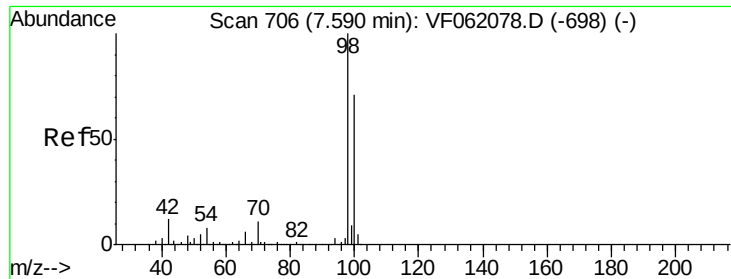


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 30.166 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

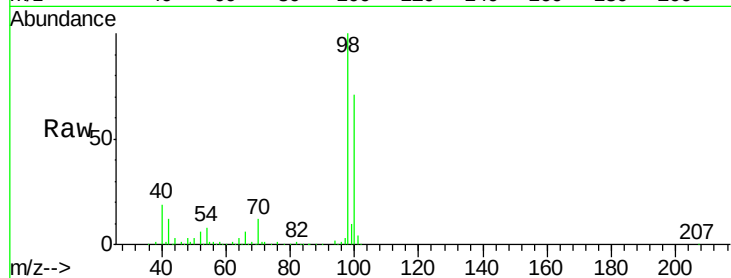
FK-SF-01-005-BRE

Tot Ion: 98 Resp: 223998

Ion Ratio Lower Upper

98 100

100 71.2 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.55

100000

80000

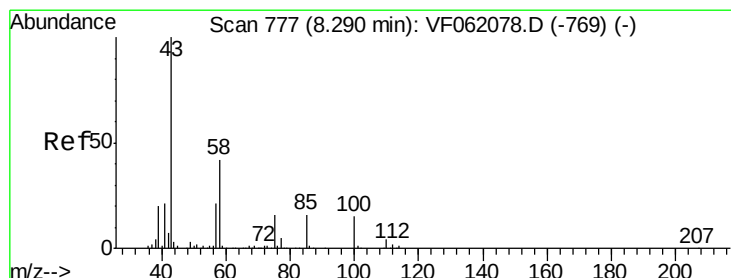
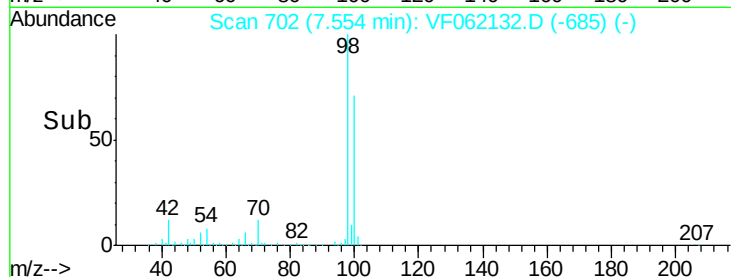
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.071 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF062132.D

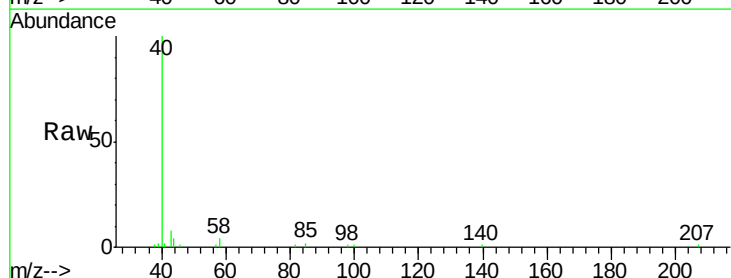
Acq: 25 Mar 2019 15:26

Tgt Ion: 43 Resp: 3810

Ion Ratio Lower Upper

43 100

58 53.8 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

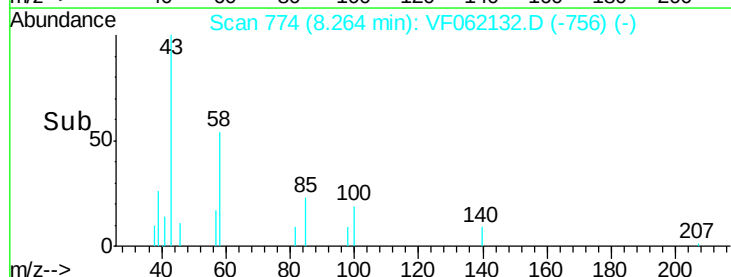
8.26

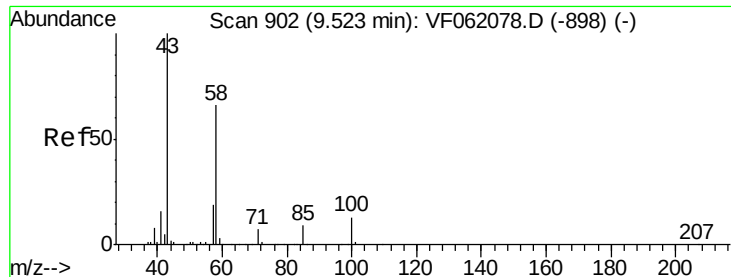
1000

500

0

Time-->

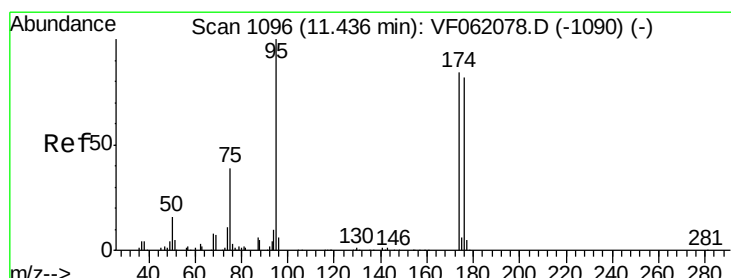
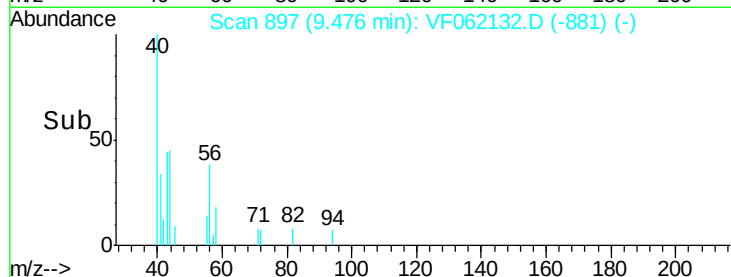
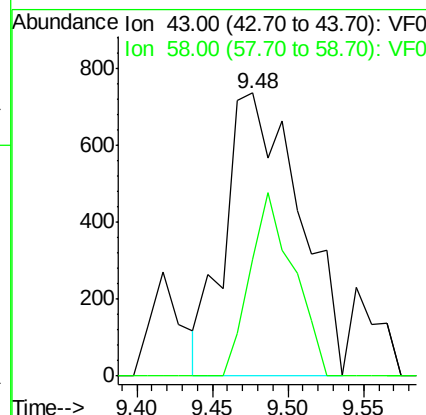
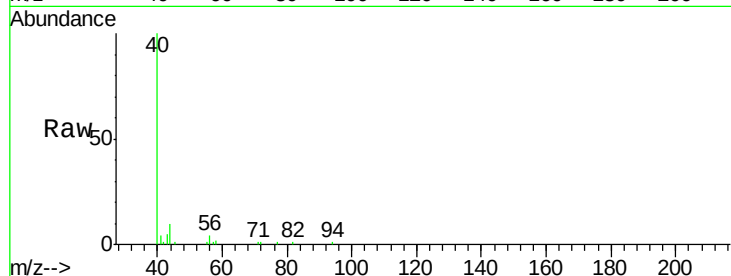




#59
2-Hexanone
Concen: 2.761 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF062132.D
Acq: 25 Mar 2019 15:26

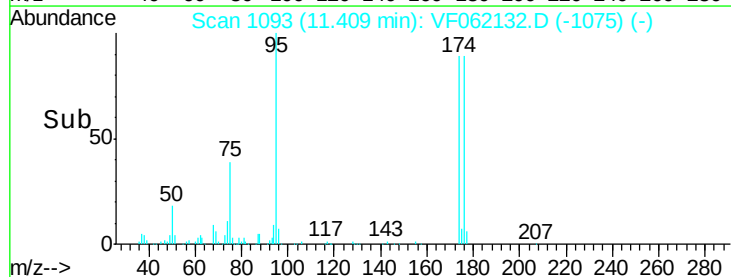
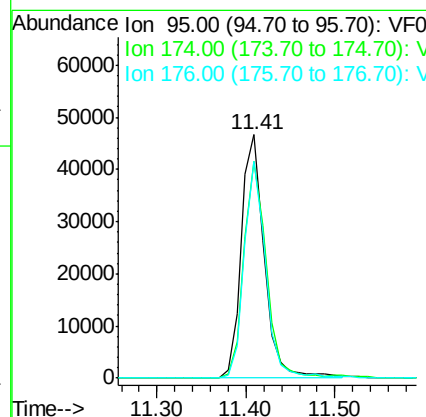
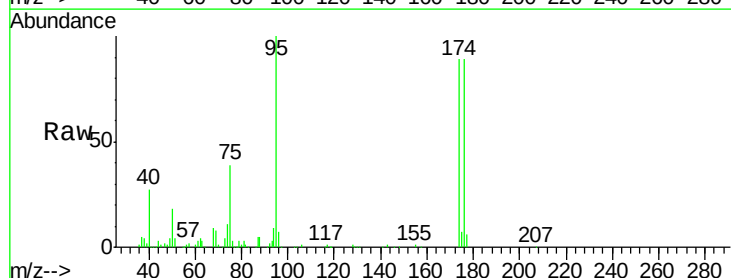
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-01-005-BRE

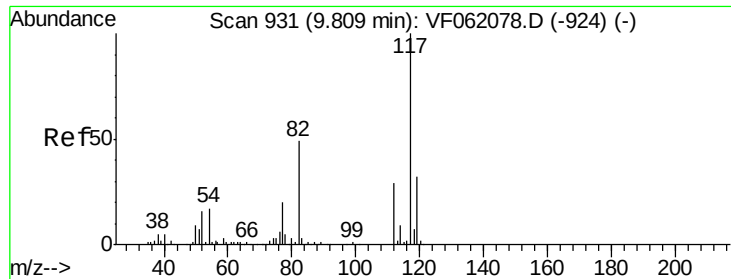
Tot Ion: 43 Resp: 2511
Ion Ratio Lower Upper
43 100
58 41.4 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 29.551 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF062132.D
Acq: 25 Mar 2019 15:26

Tgt Ion: 95 Resp: 84711
Ion Ratio Lower Upper
95 100
174 89.1 0.0 168.2
176 89.0 0.0 164.2

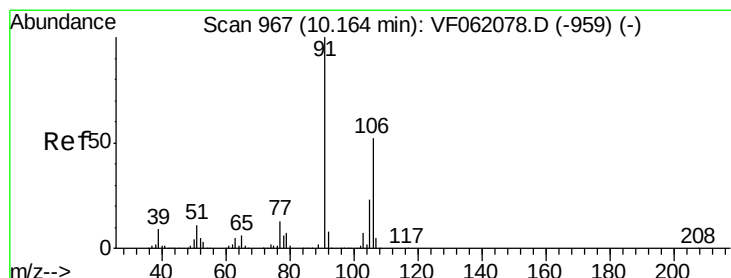
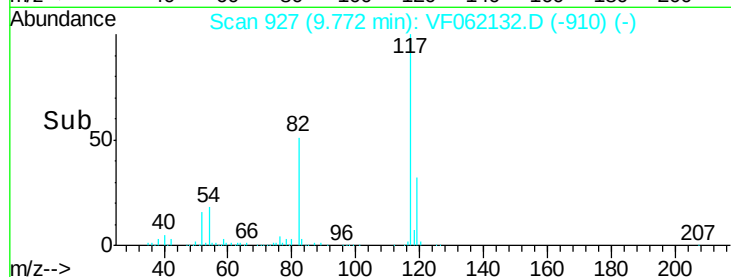
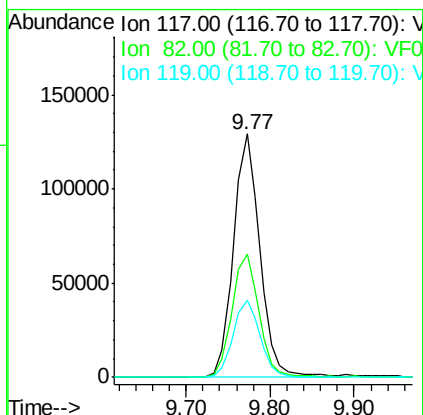
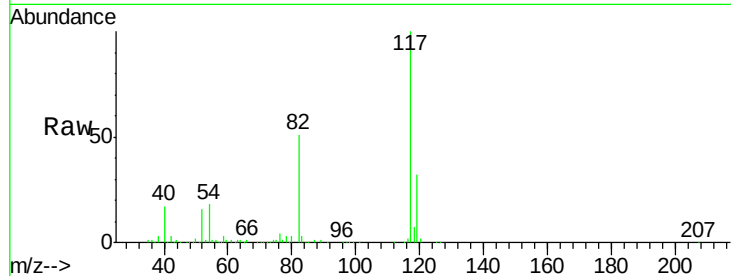




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF062132.D
Acq: 25 Mar 2019 15:26

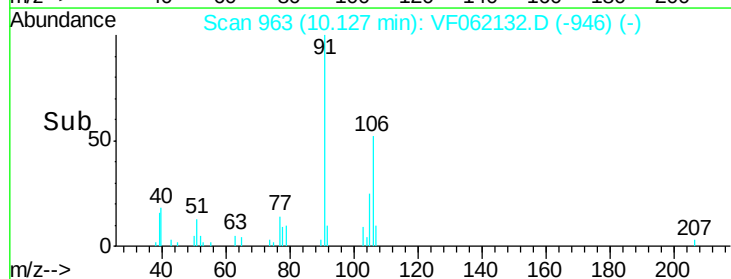
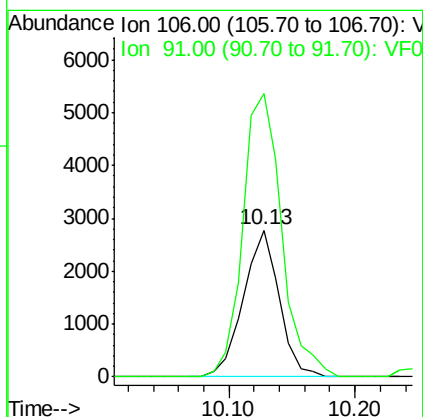
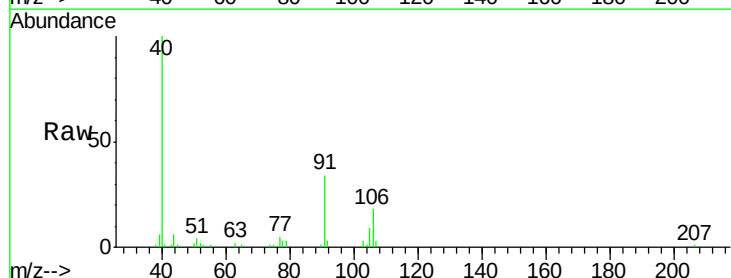
Instrument :
MSVOA_F
ClientSampleId :
FK-SF-01-005-BRE

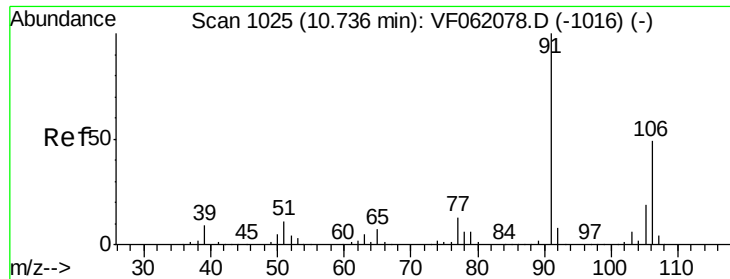
Tot Ion:117 Resp: 282146
Ion Ratio Lower Upper
117 100
82 50.8 39.2 58.8
119 31.5 25.4 38.2



#68
m/p-Xylenes
Concen: 1.593 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.04 min
Lab File: VF062132.D
Acq: 25 Mar 2019 15:26

Tgt Ion:106 Resp: 5466
Ion Ratio Lower Upper
106 100
91 193.1 154.4 231.6

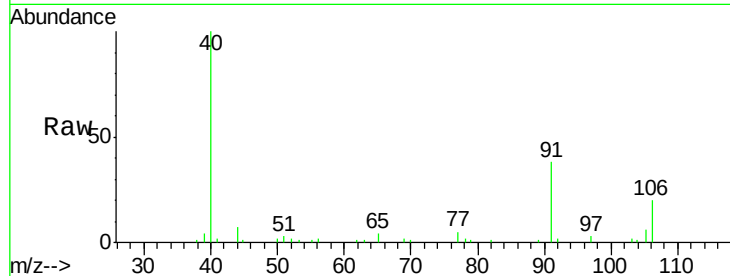




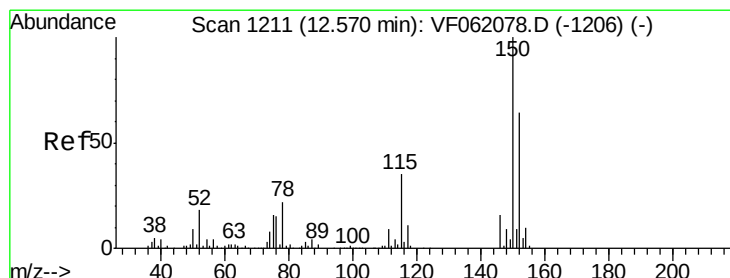
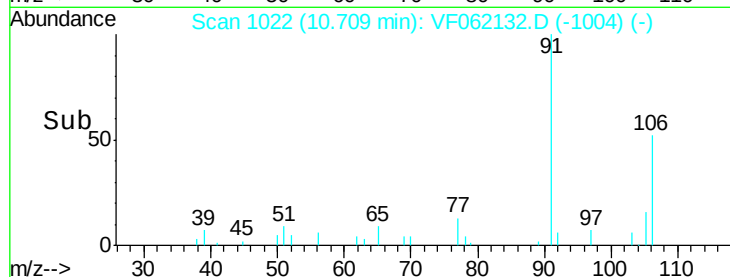
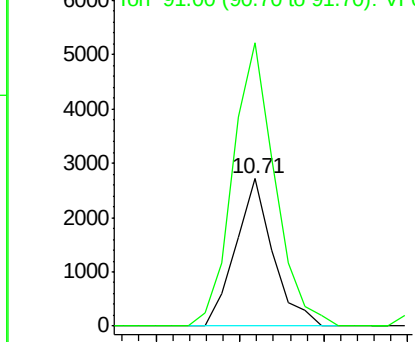
#69
o-Xylene
Concen: 1.168 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.03 min
Lab File: VF062132.D
Acq: 25 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
FK-SF-01-005-BRE

Tot Ion:106 Resp: 4196
Ion Ratio Lower Upper
106 100
91 191.8 102.6 307.8

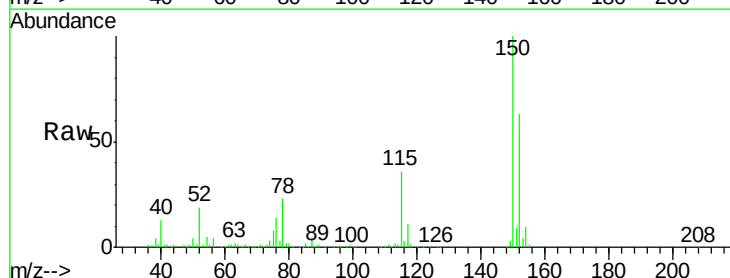


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

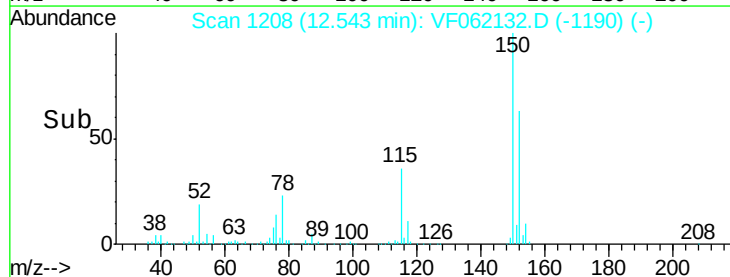
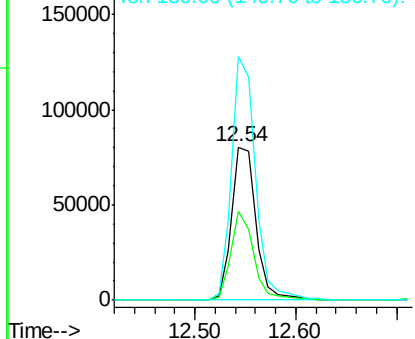


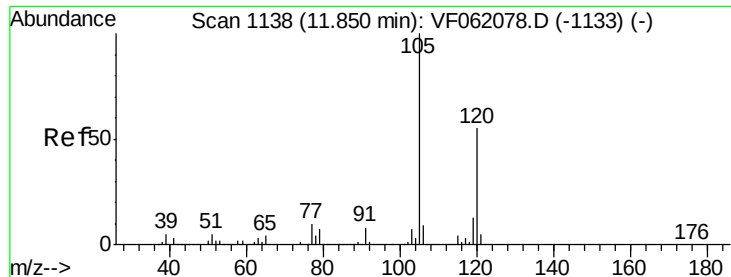
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF062132.D
Acq: 25 Mar 2019 15:26

Tgt Ion:152 Resp: 135719
Ion Ratio Lower Upper
152 100
115 57.5 27.7 83.1
150 158.8 0.0 313.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#80

1,3,5-Trimethylbenzene

Concen: 1.483 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF062132.D

Acq: 25 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

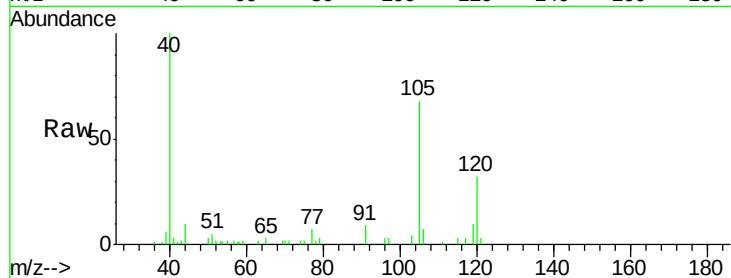
FK-SF-01-005-BRE

Tot Ion:105 Resp: 11651

Ion Ratio Lower Upper

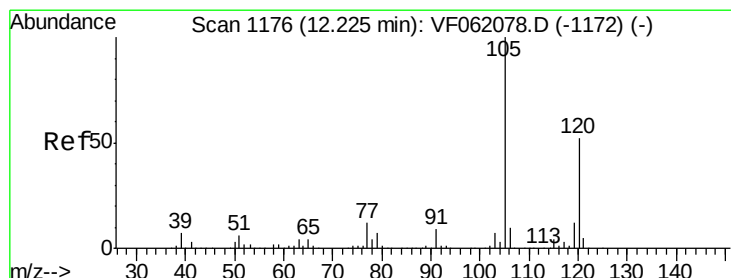
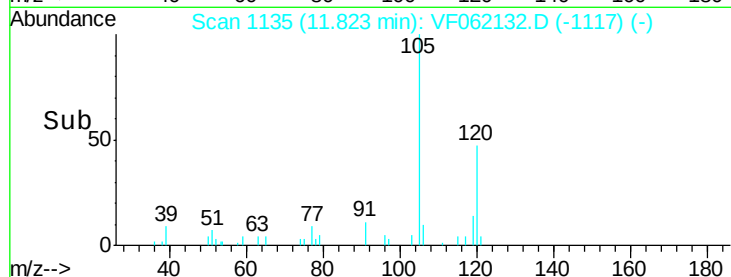
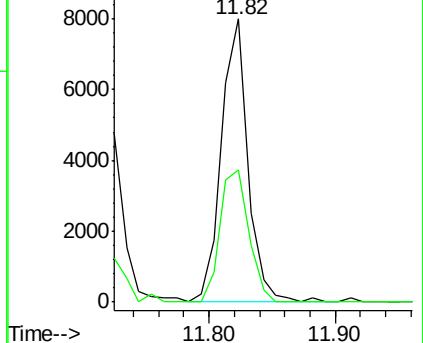
105 100

120 46.7 27.8 83.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.987 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.03 min

Lab File: VF062132.D

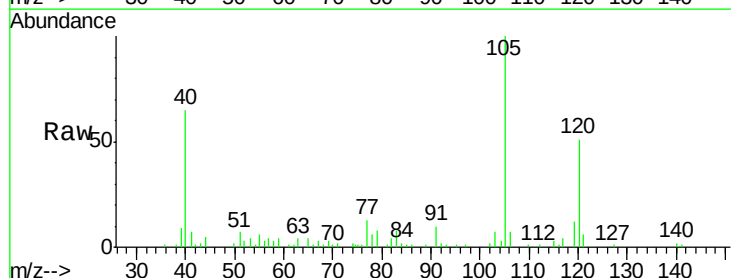
Acq: 25 Mar 2019 15:26

Tgt Ion:105 Resp: 30704

Ion Ratio Lower Upper

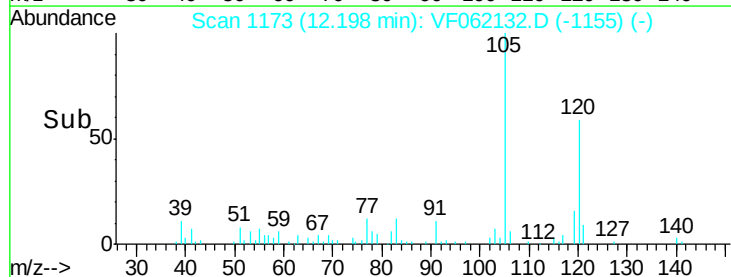
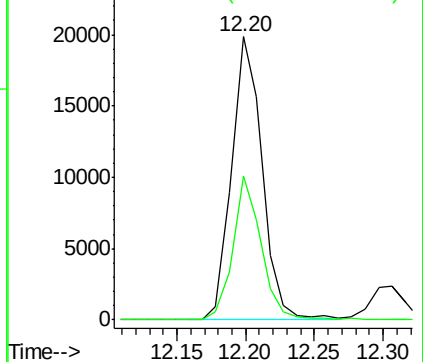
105 100

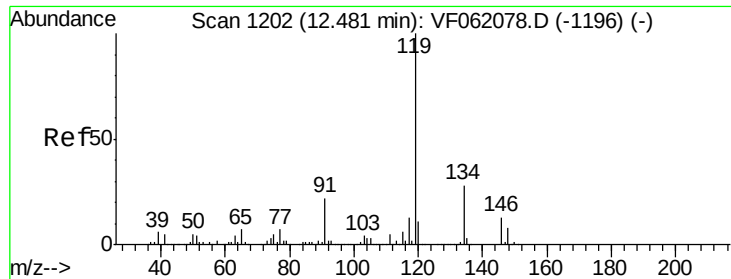
120 50.6 26.1 78.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

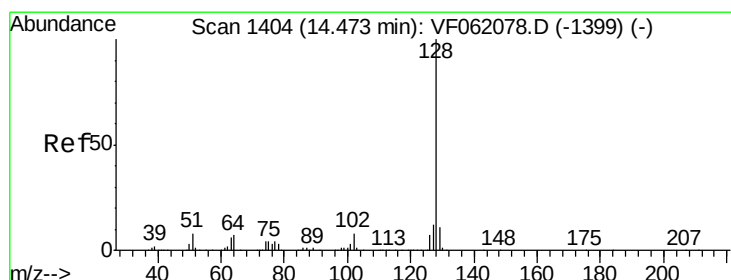
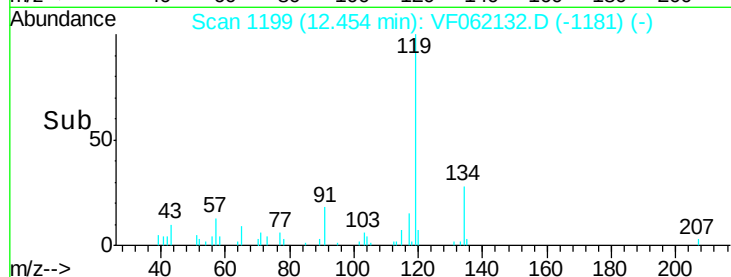
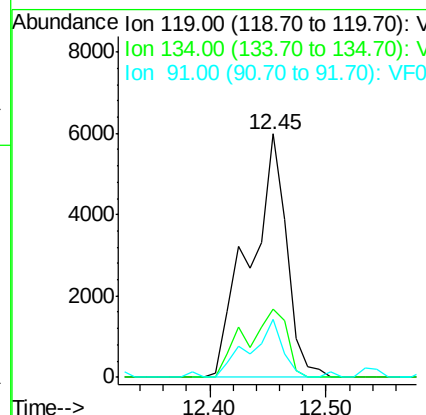
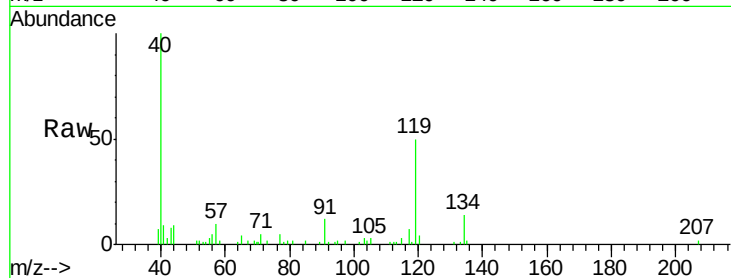




#86
 p-Isopropyltoluene
 Concen: 1.427 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF062132.D
 Acq: 25 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-SF-01-005-BRE

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.1	14.0	42.0
91	24.0	10.8	32.4



#95
 Naphthalene
 Concen: 10.218 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.02 min
 Lab File: VF062132.D
 Acq: 25 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.5	14.3
129	12.8	8.7	13.1

